

Pro'sKit®

PT-1080 Li-ion Cordless drill driver 10.8V

CE



**Test Equipment
Depot**

1-800-517-8431

99 Washington Street
Melrose, MA 02176
Phone 781-665-1400
Toll Free 1-800-517-8431



Visit us at www.TestEquipmentDepot.com

User's Manual
1st Edition 2011
©2011 Copy Right by Prokit's Industries Co., Ltd.

Before any use, refer to the corresponding paragraph in the present manual.

DESCRIPTION OF SYMBOLS

Symbols are used in this manual to attract your attention to possible risks .The safety symbols and the explication which accompany them must be perfectly understood. The warning themselves do not prevent the risks and can not be a substitute for proper methods of avoiding accidents.



This symbol before a safety comment indicates a precaution a warning or a danger. Ignoring this warning can lead to an accident for yourself or others. TO limit the risk of injury, fire, or electrocution always apply the recommendations indicated.



Conforms to relevant safety standards.

GENERAL SAFETY INSTRUCTIONS



WARNING

Read **all safety warnings and all instructions**

Failure to follow all warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference

The term "power tool" in the warnings refer to your mains operated (corded) power tool or battery operated (cordless) power tool.

1) Work area

- a) **Keep work area clean and well lit.** Cluttered and dark areas invite accidents.
- b) **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c) **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2) Electrical safety

- a) **Power tool plugs must match the outlet. Never modify the plug in any way.**
Do not use any adapter plugs with earthed (grounded) power tools.
Unmodified plugs and matching outlets will reduce risk of electric shock.
- b) **Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c) **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.

- d) **Do not abuse the cord.** Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e) **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f) **If operating a power tools in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) **Avoid accidental starting. Ensure the switch is in the off position before plugging in.** Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d) **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- f) **Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- g) **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of these devices can reduce dust related hazards.
- h) **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury
- i) **Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

4) Power tool use and care

- a) **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- b) **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c) **Disconnect the plug from the power source before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d) **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- e) **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation.** If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f) **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control;
- g) **Use the power tool, accessories and tool bits etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

5) Battery tool use and care

- a) **Recharge only with the charger specified by the manufacturer.** A charter that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paperclips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. **If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

6) Service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

SPECIAL SAFETY ADVICE FOR CORDLESS DRILL

Wear ear protectors with drills. Exposure to noise can cause hearing loss. Use auxiliary handles supplied with the tool. Loss of control can cause personal injury.

Only plug the Battery Charger in at 230V or 120V mains. Recharge the Battery only with the provided charger. Before starting any work on walls, floors or similar, make sure that all power lines in the work area are switched off at the main switchboard. Inspect the proposed drill hole location for any utility lines (e.g. water, gas, power) before drilling. Use a suitable device such as a metal or electricity line detecting device. If in doubt contact a qualified electrician or your utility provider. Both tools and work-pieces can heat up considerably during the drilling operation. Allow a sufficient period of cooling before handling. Wear appropriate gloves.

SAFETY ADVICE FOR RECHARGEABLE BATTERY AND CHARGER

- a) **Recharge only with the changer specified by the manufacture.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- b) **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- c) **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection form one terminal to another.** Shorting the battery terminal together may cause burns or fire.
- d) **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
- e) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Technical Data

Rated Voltage	DC 10.8V	
No-load Speed	0-350/0-1100rpm	
Range of Drill Bit sizes	0.8-10 mm	
Max. Drilling Capacity	Steel: Ø 6 mm	
	Wood: Ø16 mm	
Battery pack Voltage	DC 10.8V	
Battery cell	Li-ion Batteries, 1300mAh	
Charger	PT-1080F	PT-1080A
Rated Voltage	230~240V, 50Hz	110~130V , 60Hz
Output Voltage	DC12V, 500 mA	
Noise		
Sound pressure level	67 dB(A) K = 3 dB(A)	
Sound power level	78 dB(A) K = 3 dB(A)	
Vibration	"drilling into metal" model: $a_{h,D}=2.369 \text{ m/s}^2$, K=1.5 m/s ²	
Max torque	14N.m	
Charging Time	3-5 hours	

Product Features



Initial operation

Insertion and Removal of Rechargeable Battery

Ensuring the correct orientation between the battery and the battery compartment, insert the rechargeable battery into the machine. Do not apply force when inserting the battery.

Insertion can be achieved easily and without resistance. The battery must be inserted completely until the battery retention clips on the sides of the battery compartment automatically lock it into place. To remove the battery press the battery retention clips and pull the battery out of its compartment.



Charging the Battery Pack:

The rechargeable battery must be charged before the first use.

Only recharge the battery once it has been fully discharged, i.e. the performance clearly decreases.

Otherwise the battery may not achieve its full capacity at the subsequent charge.

- 1) Firmly insert battery pack into charger base.
- 2) Connect battery charger to charger base.
- 3) Plug the battery charger to power source (230V/50Hz).
The red light and green light will come on when unit is plugged in and during the battery pack is being charged, both the red light and green light is on.
- 4) When the battery is full charged, only the green light will be lighted on, and the red light will off.



Working status	Battery	Red	Green
Plug connected into the socket	Not Insert	Off	On
	Insert	On	On
Under charging	Insert	On	On
Fully charged	Insert	Off	On



Important! Only use the provided battery charger for charging the battery. First place the rechargeable battery into the charging slot in the charger and then connect the charger to the mains. Charging starts automatically.

Remove the battery from the charge after about 5 hours. Always disconnect the charger from the mains before you remove the battery from the charger.

Inserting Tool Bits / 10mm Keyless chuck:

Important! Always remove the battery before you change the drill or screw bit to avoid unintentional starting of the machine.

The cordless drill has a keyless chuck (2). Make sure that the drill or screw bit is not skew when it is inserted and the chuck tightened.

Turn the chuck anticlockwise to open the chuck until you can insert the bit. Insert the drill/screw bit all the way in and then turn the chuck in a clockwise direction to firmly tighten it.

Turn the chuck anticlockwise again to remove the bit if you stop the work or you want to change another bit.

On/Off Trigger:

Use the On/Off trigger to start the machine and keep holding it for continuous operation. The rotation speed can be varied by depressing the On/Off trigger. The more the trigger is depressed, the faster the rotation speed.

To switch the machine off, release the On/Off trigger

Forward / Reverse switch:

Important! The machine has to come to a complete stop before the reverse rotation lever can be used; otherwise the machine may be damaged.

Use the reverse-rotation lever to switch between clockwise (normal) and anticlockwise rotation or vice-versa. With the reverse-rotation lever in the central position the trigger switch is locked and cannot be depressed. Put the reverse-rotation lever in the central position before you put the machine down, to avoid unintentional starting.

Torque adjustment cover:

The tool supply you 21+1 different torque steps, you can control the maximum torque applied to the drill bit with the torque control knob.

2 Gear-speed Switch:

Move the switch to get higher speed 1150rpm, or lower speed 350rpm.

LED battery power indicator:

Press the battery power indicator button to check the battery power full or empty.

Attention! The torque control knob should only be operated when the machine is not running; otherwise the machine may be damaged.

To set the drill to the lowest available torque setting, twist the torque control knob until the small arrow on the drill-housing points to the "1" stamped on the torque control knob. In this position the torque clutch will slip with light drilling resistance. The higher the number

the arrow points to on the torque control knob, the larger the maximum torque that can be applied before the torque clutch will slip.

To set the machine to maximum available torque twist the torque control knob until the arrow points to the drill symbol. In this position there is no slip in the torque clutch.

Select a lower torque for insertion/removal of screws to avoid damage to the work-piece (in particular wooden work-pieces) or to the screw. For drilling select a higher torque setting. Do a test first on an item which is not your final work-piece and adjust the desired torque accordingly before you start the actual work.

Operation for working

Only use tool bits which can be securely fastened in the chuck and for which the drill has been designed.

1. Drilling

Check whether the drill bit is correctly inserted and tightly fastened before you start the machine. Use properly sharpened drill bits. Use screwdriver bits that are not overly worn. At the start of each drilling operation select a lower speed. For large holes drill with a smaller drill bit first and then enlarge the hole using a larger drill bit.

2. Drilling in Wood

For drilling in wood use a wood drill-bit. Protect or fasten the work-piece in a suitable holder. Mark the positions of the holes to be drilled with a sharp tool or a nail. Do not apply excessive pressure against the work-piece with the machine.

3. Drilling in Metal

For drilling in metal use a steel drill-bit. Always provide sufficient cooling with suitable non-inflammable coolants. Protect or fasten the work-piece with a suitable holder. The work-piece should lie flat on the work bench. Mark the positions of the holes to be drilled with a centre-punch. Do not apply excessive pressure against the work-piece with the machine. Allow the drill to operate at its normal operating speed.

Important! At the start of drilling select a lower speed to avoid the bit slipping away from the desired hole location. If the drill-hole is deep, the drill-bit may become jammed in the hole. In this event a high torque could damage the drill bit or the drill. If the bit becomes jammed, hold the machine firmly and immediately release the On/Off trigger. Switch to anticlockwise rotation, and use a low rotation speed to remove the jammed drill bit more easily.

4. Drilling in Plastic

For drilling in plastic use a steel drill and follow the same instructions as for drilling in wood.

5. Drilling in Stone, Brick, Masonry or similar

For drilling in walls, stone, masonry etc. use a masonry-bit. Do not put too much pressure on the machine. Follow the same instructions as for drilling in metal.

6. Using the Drill as a Screw-driver

Before using the machine check whether the screw-bit is inserted correctly. Avoid over-tightening screws, otherwise the screw head may be damaged or stripping of the threads may occur.

7. Screw Insertion

Set the direction of rotation of the drill to the clockwise direction. Insert the screw-bit into the slot in the head of the screw. Hold the screw bit perpendicular to the head of the screw, otherwise the screw or the screw head may be damaged. Press the screw bit against the screw with a constant pressure while driving in the screw.

When the screw is completely screwed in, hold the machine firmly and release the On/Off trigger, otherwise the screw or the screw head may be damaged. If the On/Off trigger is not released immediately a high torque could also damage the drill bit or the drill.

8. Screw Removal

Set the direction of rotation of the drill to the anticlockwise direction. Insert the screw-bit into the slot in the head of the screw. Hold the screw-bit perpendicular to the head of the screw, otherwise the screw or the screw head may be damaged. Press the screw bit against the screw with a constant pressure while removing the screw.

Important: Protect the environments

Do not throw used batteries into fire or water-danger of explosion! Hand in used and faulty batteries to your local waste disposal point or to your dealer for environmentally friendly disposal.

Maintenance and Cleaning

Attention! Always remove the battery before carrying out any work on the machine.

To clean, always use a dry or moist, but not wet, towel. Many cleaning agents contain chemical substances which may cause damage to the plastic parts of the machine.

Therefore do not use any strong or inflammable cleaners such as petrol, paint thinner, turpentine or similar cleaning agents.

Always keep air ventilation holes free of dust deposits to prevent overheating.

Pro'sKit[®]



©2011 Prokit's Industries Co., LTD. All rights reserved 2011001(C)